APPENDIX J

```
Input: A dataset without any missing and no constant variables, X
Output: The normalized dataset, NX
Process:
       [m n] = sizeof(X);
       Initialize a matrix NX of size m by n;
       For i = 1:n
              x = X(:, i); //x is the ith column of X
              x_mean = mean of x;
              For j = 1 to m,
                     x(j) = x(j) - x_mean;
              End For
              x_norm = 0;
              For j = 1 to m,
                     x norm += x(j)^2;
              End For
              x_norm = sqrt(x_norm);
              For j = 1 to m,
                     x(j) = x_norm;
              End For
              NX(:, i) = x; //ith column in NX is x
       End For
```